

OM of: US-08-711-417C-165 to: PIR_71:* out_format : pfs
 Date: Aug 28, 2002 10:06 AM
 About: Results were produced by the GenCore software, version 4.5,
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Command line parameters:
 -MODEL=framat_n2p.model -DEV=xlip
 -Q=/cgn2_1/USPTO_Spool/6228611/runat_28082002_100210_13574/app_query.fasta_1.1639
 -DB=PIR_71 -QFMT=fastan -SUFFIX=rpr -GAPOP=12.000 -GAPEXT=4.000
 -MINMATCH=0.100 -LOOPCL=0.000 -LOOPEXT=0.000 -CGAPOP=4.500
 -CGAPEXT=0.050 -XGAPOP=10.000 -XGAPEXT=0.500 -CGAPOP=6.000
 -FGAPEXT=7.000 -YGAPOP=10.000 -YGAPEXT=0.500 -DELOP=6.000
 -DELEXT=7.000 -START=1 -MATRIX=blomsu62 -TRANS=human40.cdi
 -LIST=45 -LOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0
 -ALIGN=15 -MODE=LOCAL -OUTFMT=pfs -NORM=ext -HEAPSIZE=500
 -MINLEN=0 -MAXLEN=200000000 -USER=6228611 -CGNL=1.213 -NCPU=6
 -ICPU=3 -LONGLOG -DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -NO_XLPX
 -WAIT -THREADS=1

Search information block:
 Query: US-08-711-417C-165
 Query length: 1551
 Database: PIR_71:
 Database sequences: 283138
 Database length: 96089334
 Search time (sec): 98.600000

Sequence list:
 Strid Orig ZScore EScore Len ! Documentation
 PIR2:A56355 + 2449.00 2899.19 4.1e-154 518 ! DNA-binding protein Ikaros form
 PIR2:B56229 + 1938.50 2295.23 2.2e-120 427 ! lymphoid transcription factor 1
 PIR2:I59572 + 1933.50 2289.22 4.7e-120 431 ! Ikaros DNA binding protein - m
 PIR2:A56229 + 1607.00 1902.69 1.7e-98 392 ! lymphoid transcription factor 1
 PIR2:JE0288 + 323.00 374.61 1.3e-13 671 ! kruppel-type zinc finger prote
 PIR2:S22954 + 321.50 374.53 1.6e-13 553 ! finger protein zfp-37 - mouse
 PIR2:S51037 + 321.00 372.18 1.8e-13 675 ! zinc-finger protein - African c
 PIR2:I46899 + 311.00 360.84 8.2e-13 636 ! gene NK10 protein - mouse
 PIR2:S10245 + 309.00 352.31 1.1e-12 411 ! finger protein, testis - mouse
 PIR2:S26823 + 308.00 352.31 1.3e-12 803 ! zinc finger protein ZNF43 - hu
 PIR2:G02075 + 307.00 356.68 1.5e-12 595 ! transcription repressor zinc fi
 PIR2:JH0500 + 305.50 348.80 2.0e-12 1191 ! zinc finger protein ZNF91 - hu
 PIR2:A3073 + 304.50 354.92 2.1e-12 519 ! transcription activator ZNF35 -
 PIR2:A40751 + 304.00 354.92 2.3e-12 485 ! finger protein MZF1 - human
 PIR2:B32891 + 303.50 351.74 2.6e-12 651 ! finger protein 2, placental - h
 PIR2:A29253 + 303.50 350.40 2.6e-12 758 ! finger protein hunchback - h
 PIR2:A32891 + 301.00 352.46 3.6e-12 428 ! finger protein 1, placental - h
 PIR2:A37107 + 298.50 346.82 5.4e-12 580 ! spermatogenesis protein Zfp-35
 PIR2:I30600 + 298.00 348.10 5.7e-12 469 ! zinc finger protein ZNF135 - hu
 PIR2:S05656 + 295.50 335.84 9.5e-12 1350 ! finger protein - African clawa
 PIR2:I39311 + 294.50 344.53 9.6e-12 439 ! finger protein (clone XlcoF28)
 PIR2:I38599 + 294.00 341.61 1.1e-11 572 ! Kruppel-type zinc finger protei
 PIR2:A4157 + 291.00 342.42 1.6e-11 348 ! zinc finger protein ZNF134 - hu
 PIR2:S05447 + 288.50 335.02 2.5e-11 576 ! renal transcription factor Kid-
 PIR2:I08674 + 287.50 334.60 2.5e-11 604 ! finger protein glass - fruit fl
 PIR2:A34612 + 287.50 335.15 2.8e-11 496 ! probable finger protein ZNF2p56
 PIR2:T14757 + 286.50 331.11 3.4e-11 686 ! zinc finger protein ZNF7 - huma
 PIR2:I38598 + 286.00 330.33 3.7e-11 701 ! hypothetical protein ZNF2p57C1
 PIR2:I37570 + 285.50 331.26 3.9e-11 589 ! zinc finger protein ZNF132 - hu
 PIR2:I50620 + 285.00 329.24 4.3e-11 693 ! zinc finger protein - human (fr
 PIR2:J05146 + 284.50 324.02 5.0e-11 1173 ! prokr2 - chicken (fragment)
 PIR2:A57785 + 279.00 323.48 1.1e-10 594 ! arylphorin gene-specific bindin
 PIR2:S08686 + 278.50 322.04 1.2e-10 654 ! finger protein ZNF133 - human
 PIR2:S05548 + 278.00 322.47 1.2e-10 582 ! finger protein ZFP-36 - human
 PIR2:S03677 + 277.50 318.91 1.4e-10 816 ! gap protein hunchback - fruit f
 PIR2:S68858 + 276.50 323.39 1.5e-10 428 ! finger protein (clone mkr3) - m
 PIR2:B34612 + 275.50 320.11 1.7e-10 707 ! finger protein - mouse
 PIR2:JH0501 + 274.50 319.50 2.1e-10 509 ! zinc finger protein Ckr1 - chid

seq_name: pir2:A56355
 seq_documentation_block:
 DNA-binding protein Ikaros form 1 - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 19-Oct-1995 #sequence_revision 19-Oct-1995 #text_change 01-Dec-2000
 C/Accession: A56355
 R/Molnar, A.; Georgopoulos, K.
 Mol. Cell. Biol. 14, 8292-8303, 1994
 A/Title: The Ikaros gene encodes a family of functionally diverse zinc finger DNA-bin
 A/Reference number: A56355; MUID:95059058
 A/Accession: A56355
 A/Status: preliminary; not compared with conceptual translation
 A/Molecule type: mRNA
 A/Residues: 1-518 <MOL>
 C/Superfamily: zinc finger protein ZFP-36; LIM metal-binding repeat homology
 C/Keywords: alternative splicing; DNA binding

alignment_scores:
 Quality: 2449.00 Length: 521
 Ratio: 4.928 Gaps: 6
 Percent Similarity: 95.393 Percent Identity: 89.827

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 1 MetAspValAspGluGlyGlnAspMetSerGlnValSerGlyLysGluSe 17
 |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
 51 CCCCCCTGTAAAGCGATCTCCAGATGAGGCGGAGGAGCCATGCCGATCC 100
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 17 rProProValSerAspThrProAspGluGlyAspGluProMetProValP 34
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 101 CCGAGGACCTCTCCACACCTCGGGAGGAGACAGCAAGCTCCAAAGAGTGAC 150
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 34 roGluAspLeuSerThrThrSerGlyAlaGlnGlnAsnSerLysSerAsp 50
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 151 AGACTCTGCGCCAGTATGTTAAAGTAGACACTCAGAGTGTATGAAGAGAA 200
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 51 ArgGlyMetAlaSerAsnValLysValGluThrGlnSerAspGluGluAs 67
 |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
 201 TGGCGCTGCTGTCAATGAATGAGGAGGAAGAAATGTCGGGAGGATTTAGGAA 250
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 67 nGlyArgAlaCysGluMetAsnGlyGluGluCysAlaGluAspLeuArgW 84
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 251 TGCTTGATGCTCGGAGAGAAATGAATGGCTCCACAGGACCAAGGC 300
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 84 etLeuAspAlaSerGlyGluLysMetAsnGlySerHisArgAspGlnGly 100
 |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
 301 AGCTCGGCTTGTGCGGAGTTGGAGGACATTCGACTTCCTTAACGGAAACT 350
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 101 SerSerAlaLeuSerGlyValGlyGlyLeuArgLeuProAsnGlyLysLe 117
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 351 AAAGTGTGATATCTGTGGGATCATTTTTCATCGGGCCCAATGTCTCATGG 400
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 117 uLysCysAspIleCysGlyIleValCysIleGlyProAsnValLeuMetV 134
 |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
 401 TTCACAAAAGAACCCACACTGGAGAACCGGCCCTTCAGTGCATCATGCTC 450
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 134 alHisLysArgSerHisThrGlyGluArgProPheCysCysAsnGlnCys 150
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 451 GGGGCTCTATTCACCCAGAGGCGACCTGCTCCGCGCATCATCAAGCTGCA 500
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53 ..... 53
351 AAAGTGTGATATCTGTGGATCATTTTCATCGGGCCCAATGTCTCATGG 400
53 ..... 53
401 TTCACAAAAGAACCCACACTGGAGAGCGCCCTTCAGTGCATATCAGTGC 450
54 .....GlyGluArgProPheGlnCysAsnGlnCys 63
451 GGGGCTTCATTCACCAAGAGGCAACCTGCTCCGGGCACATCAAGCTGCA 500
64 GlyAlaSerPheThrGlnLysGlyAsnLeuLeuAargHisIleLeuLeuHi 80
501 TTCGGGGAGAACCCCTCAATATGCCACCTCTGCAACTACGCTGCCGCC 550
80 SSeGlyGluLysProPheLysCysHisLeuCysAsnTyrAlaCysAra 97
551 GGAGGACGCCCTCACTGCCACCTGAGGACGACCTCCGTTGGTAAACCT 600
97 rGargAspAlaLeuThrGlyHisLeuAargThrHisSerValGlyLysPro 113
601 CACAAATGTGGATATGTGGCCGAGCTATTAACAGCGAAGCTCTTTAGA 650
114 HisLysCysGlyTyrCysGlyArgSerTyrLysGlnArgSerLeuLeu 130
651 GGAACATAAAGAGCGCTGCCCAACTACTTGGAAAGCATGGCCCTTCGG 700
130 uGluHisLysGluAargCysHisAsnTyrLeuGluSerMetGlyLeuPro 147
701 GCACACTGTACCACTGATTAAGAGAACTAAGCACAGTGAATGGCA 750
147 ly...MetTyrProValIleLysGluGluThrAsnHisAsnGluMetAla 162
751 GAAGACCTGTGCAAGATAGGATCAGAGATCTCTGCTGGTGACAGACT 800
163 GluAspLeuCysLysIleGlyAlaGluArgSerLeuValLeuAspArgLe 179
801 AGCAAGTATGTGCGCAACCTAAGAGCTCTATGCTTCAGAAATTTCTTG 850
179 uAlaSerAsnValAlaLysArgLysSerSerMetProGlnLysPheLeu. 195
851 GGGCAACAGGGCTGTCCGACACGCCCTACGACAGTCCAGCTGACGAGAG 900
196 ..AspLysCysLeuSerAspMetProTyrAspSerAlaAsnTyrGluLys 211
901 GAGAACGAAATGATGAAGTCCAGCTGATGGACCAAGCCATCAACAACGC 950
212 Glu...AspMetMetThrSerHisValMetAspGlnAlaIleAsnAl 227
951 CATCAACTACCTGGGGCGGAGTCCCTGCGCCCGCTGGTGCGACGCCCC 1000
227 alLeAsnTyrLeuGlyAlaGluSerLeuAargProLeuValGlnThrPro 244
1001 CGGCGGTTCGAGGTGGTCCCGGTTCATCAGCCCGATGTACCAGCTGAC 1050
244 roGlySerSerGluValValProValIleSerSerMetTyrGlnLeuHis 260
1051 AGG...CGCTCGGAGGCACCCCGCGCTCCACCACTCGGCCCGAGACAG 1097
261 LysProSerAspGlyProPheArgSerAsnHisSerAlaGlnAsp... 276
1098 CGCGGTGGAGTACTGTGTCTCTCCCAAGCCAGTTGGTGGCCCTCGG 1147
277 .AlaValAspAsnLeuLeuLeuSerLysAlaLysSerValSerSerG 293
1148 AGCGGAGGCTCCCGAGCACAGCTGCCAAGACTCCACGGACACCGAG 1197
293 luArgGluAlaSerProSerAsnSerCysGlnAspSerThrAspThrGlu 309
1198 AGCAACAACAGGAGGACGCGCGCTCTTACTACTGACCAACACCAT 1247
310 SerAsnAlaGluGlnAargSerGlyLeuIleTyrLeuThrAsnHisIl 326

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1248 CGCCCGAGCGCGCAACGC...GTGTCTCAAGGAGGAGCACCAGCGCT 1294
326 eAsnProHisAlaAargAsnGlyLeuAlaLeuLysGluGlnArgAlaT 343
1295 ACAGCTGTCTGCGCGCGCTCCGAACTCCAGAGCGCGCTCCCGGTG 1344
343 yTgluValLeuAargAlaIleSerGluAsnSerGlnAspAlaPheArgVal 359
1345 GTCAGCACCAGCGGGAGCAGATGAAGGTGTACAAGTGCACACTGCGG 1394
360 ValSerThrSerGlyGluGlnLeuLysValTyrLysCysGluHisCysAr 376
1395 GGTGCTCTTCTTGGATCAGCTCATGTACACCATCCACATGGCTGCCACG 1444
376 gValleuPheLeuAspHisValMetTyrThrIleHisMetGlyCysHisG 393
1445 GCTTCGCTGATCTTTTGTAGTCAACATGTGCGCTACACAGCAGCAGGAC 1494
393 lyPheArgAspPropheGluCysAsnMetCysGlyTyrHisSerGlnAsp 409
1495 CGGTACGAGTTCTCTCGCACATTAACGAGGAGGAGCACCCTTCCACAT 1544
410 ArgTyrGluPheSerSerHisIleThrArgGlyGluHisArgTyrHisLe 426
1545 GAGC 1548
426 uSer 427
seq_name: pir2:I59572
seq_documentation_block:
IkaroS DNA binding protein - mouse
C:Species: Mus musculus (house mouse)
C:Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 01-Dec-2000
C:Accession: I59572
R:Georgopoulos, K.; Moore, D.D.; Derfler, B.
Science 258, 808-812, 1992
A:Title: IkaroS, an early lymphoid-specific transcription factor and a putative media
A:Reference number: I59572; MUID:93068267
A:Accession: I59572
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-431 <RES>
A:Cross-references: GB:L03547; NID:g198286; PIDN:AAA66193.1; PID:g198287
C:Gene: IkaroS
C:Superfamily: zinc finger protein ZFP-36; LIM metal-binding repeat homology

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Ratio: 4.716 Gaps: 7
Percent Similarity: 78.695 Percent Identity: 73.321
alignment_block:
US-08-711-417C-165 x I59572
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51 CCCCCCTGTAAAGCGTACTCCAGATGAGGCGCATGAGCCCATGCCGATCC 100
17 rProProValSerAspThrProAspGluGlyAspGluProMetProValP 34
101 CCAGGACCTCTCCACCACTCGGAGGACAGCAAGCTCCCAAGATGAC 150
34 roGluAspLeuSerThrThrSerGlyAlaGlnGlnAsnSerLysSerAsp 50
151 AGAGTGTGGCCAGTAATGTTAAAGTAGAGACTCAGAGTGTGAAGAGAA 200

```



```

1  ATGGATGCTGACGAGGCTCAAGACATGCTCTTCTCATCATCGGGAAGAAAG 50
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1  MetAspValAspGluGlyGlnAspMetSerGlnValSerGlyLysGluSe 17
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
51  CCCCCTGTAAAGGATACCTCCAGATGAGGCGGATGAGCCCATCCGATCC 100
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
17  rProProValSerAspThrProAspGluGlyAspGluProMetProValP 34
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
101  CCAGAGGACCTCTCCACACCTCGGGAGGACAGCAAAAGCTCCAGAGTGAC 150
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
34  roGluAspLeuSerThrThrSerGlyAlaGlnGlnAsnSerLysSerAsp 50
   |||  :::|||||
151  AGA...GTCGTGGCC..... 162
   |||  :::|||||
51  ArgGlyMetValAlaIatyrGlyAlaAspGlyPheArgAspPheHisAlaI 67
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
163  .....AGTAATGTTAAAGTAGACTCAGAGTG 190
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
67  eIleSerAspArgGlyMetProSerAsnValLysValGluThrGlnSerA 84
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
191  ATGAAGAGAAATGGCGCTGCTGTAATGAATGAGGGAAGAANTGTGCGGAG 240
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
84  spGluLysGlnGlyArgAlaCysGluMetCasnGlyGluGluCysAlaGlu 100
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241  GATTTCAGAAATGCTTGATGCTCGGAGAGAAAAATGAATGGCTCCACAG 290
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101  AspLeuArgMetLeuAspAlaSerGlyGluLysMetAsnGlySerHisAr 117
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291  GGACCAAGCAGCTCGGCTTGTGCGGAGTTGGAGGCATTCGACTTCCTA 340
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
117  gaspGlnGlySerSerAlaLeuSerGlyValGlyGlyIleArgLeuProA 134
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
341  ACGGAAACTAAAGTGTGATATCTGCGGCATCATTTGCATCGGGCCCAAT 390
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
134  snGlyLysLeuLysCysAspIleCysGlyIleValCysIleGlyProAsn 150
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
391  GTGCTCATGTTTCACAAAAGACCCACATCGGAGAACGGCCCTCCAGTG 440
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
151  ValLeuMetValHisLysArgSerHisThr..... 160
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441  CAATCAGTCGGGGCCCTCATTCACCCAGAGAGGCAACCTGTCGCGCACA 490
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
160  ..... 160
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
491  TCAAGCTGCATTCGCGGAGAGAGCCCTTCAAATGCCACCTCTGCAACTAC 540
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
160  ..... 160
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541  GCCTGCCGCGGAGGACGCCCTCACTGGCCACCTGAGGAGCAGCTCCGT 590
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
160  ..... 160
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
591  TGGTAAACCTCACAAATGTGGATATGTGGCGGAAGCTATAACAGCGAA 640
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
160  ..... 160
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
641  CGTCTTTAGAGGAACATAAAGAGCGCTGCCAACACTACTTGGAAAGCATG 690
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
160  ..... 160
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
691  GGCCTTCGGGCGACACTGTACCCAGTCAATTAAAGAAACTAAGACAG 740
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
160  ..... 160
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
741  TGAATGGCAGAGACCTGTGCAAGATAGGATCAGAGAGATCTCTCGTGC 790
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160  ..... 160
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
791  TGGACAGACTAGCAAGTAATGTGCGCAAAACCTAAGAGCTCTATGCCTCAG 840
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
160  ..... 160
   |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
841  AAATTCTTGGGGACAAGGCGCTGTCCGACACAGCCCTACGACAGTGCCAC 890

```

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161  .....AspLysCysLeuSerAspMetProTyrAspSerAlaAs 173
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
891  GTACGAGAGGAGAAACAAATCATGAATCCACGTGATGACCAAGCCA 940
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
173  nTyrGluLysGlu...AspMetMetThrSerHisValMetAspGlnAlaI 189
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
941  TCAACACAGCCCATCACTACCTGGGGCCGAGTCCCTGCGCCGCTGGTG 990
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
189  leAsnAsnAlaIleasnTyrLeuGlyAlaGluSerLeuArgProLeuVal 205
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
991  CAGAGCCCGCGGGGTTCCGAGGTGTCCGGTCAATCAAGCCCGATGTA 1040
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
206  GlnThrProProGlySerSerGluValValProValIleSerSerMetTy 222
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1041  CCAGTCTCACAGG...CGCTCGGAGGCAACCCGCGCTCCCAACCACTCGG 1087
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
222  rGlnLeuHisLysProProSerAspGlyProProArgSerAsnHisSerA 239
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1088  CCCAGGACAGCCGCTGGAGTACCTGTCTGTCTCTCCAGGCCCAAGTTG 1137
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239  laGlnAsp...AlaValAspAsnLeuLeuLeuSerLysAlaLysSer 254
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1138  GTGCCCTCGAGCGCGGCTCCCGAGCAACAGCTGCCAAGACTCCAC 1187
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255  ValSerSerGluArgGluAlaSerProSerAsnSerCysGlnAspSerTh 271
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1188  GGACACCCGAGAGCAACACAGGAGCAGCGCGCTTATCTACCTGA 1237
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271  rAspThrGluSerAsnAlaGluGluGlnArgSerGlyLeuIleTyrLeuT 288
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1238  CAACACACATCCCGCGAGCGCGCAAGC...GTGTCGCTCAAGGAGGAG 1284
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288  hrAsnHisIleAsnProHisAlaArgAsnGlyLeuAlaLeuLysGluGlu 304
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1285  CACCGCGCTACGACCTGTGCGCGCGCTCCGAGAACCTCGCAGGACGC 1334
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
305  GlnArgAlaTyrGluValLeuArgAlaAlaSerGluAsnSerGlnAspAl 321
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1335  GCTCCGCTGTGTACAGCACCGCGGGAGCAGATGAAGTGTACAAGTGC 1384
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
321  aPheArgValValSerThrSerGlyGluGlnLeuLysValTyrLysCysG 338
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1385  AACACTCGCGGTGCTCTTCTGGATCAGCTCATGTACACCATCCACATG 1434
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
338  luHisCysArgValLeuPheLeuAspHisValMetTyrThrIleHisMet 354
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1435  GGCTGCCACGCTTCCGTGATCTTTTGTAGTCAACATGTGCGCTACCA 1484
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
355  GlyCysHisGlyPheArgAspProPheGluCysAsnMetCysGlyTyrHI 371
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1485  CAGCCGAGCGGTACGAGTTCTCGTGCACATAACCGGAGGGAGCAC 1534
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
371  sSerGlnAspArgTyrGluPheSerSerHisIleThrArgGlyGluHisA 388
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
1535  GCTTCCACATGAGC 1548
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
388  rGyrHisLeuSer 392
   |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

```

seq_name: pir2:JE0288

seq_documentation_block:

krueppel-type zinc finger protein - human

C:Species: Homo sapiens (man)

C>Date: 05-Feb-1999 #sequence_revision 05-Feb-1999 #text_change 01-Dec-2000

C:Accession: JE0288

R:Katoch, O.; Oguri, T.; Takahashi, T.; Takai, S.; Fujiwara, Y.; Watanabe, H.

Biochem. Biophys. Res. Commun. 249, 595-600, 1998

A:Title: ZK1, a novel krueppel-type zinc finger gene, is induced following exposure t

A:Reference number: JE0288; MUID:98401134

A:Accession: JE0288

A>Status: preliminary

A:Molecule type: mRNA

305 lyGluLysProTyrThrCysLysGlnCysGlyLysAlaPheSerValSer 322

000
100
200
300
400
500
600
700
800
900
1000

seq_name: pir2:S51037

zinc-finger protein - African clawed frog

C/Species: *Xenopus laevis* (African clawed frog)

C;Date: 01-Aug-1993 #sequence_revision 01-Sep-1
C:Accession: S51037: S06565

R; Schaefer, U.; Rausch, O.; Bouwmeester, T.; Pl
Euse T. Picobom 226 567-576 1004

A;Title: Sequence-specific recognition of a rep

A;Accession: S51037

A: Molecule type: DNA
A, status: preliminary

A; Residues: 1-6/5 <SCH>

J. Mol. Biol. 208, 639-659, 1989

A;Reference number: S05632; MUID:90040698

A; Accession: S00363
A; Status: not compared with conceptual translation

A; Molecule type: mRNA
Accession: 95-148 / V / 450-613 / NTR

A; Experimental source: clone XlclGF20-1

C; Keywords: DNA binding; zinc finger

| | alignment_scores: | Quality: | 231 | 00 |
|--|-------------------|----------|-----|--------|
| | | | | read4b |

Ratio: 1.092 Gaps

.....

US-08-711-417C-165 X S51037

Align seg 1/1 to: 551037 from: 1 to: 675

[illegible][illegible][illegible]

I24 .GGAGGACAGCAAAGCTCC AAGAGTGACAGAGTCGTGG
:: ||| ::::: ::::|

22 uProAsnTyrGlnGlnAsnCysThrAspGlyGluAlaI

173 AAGTAGAG.....ACTCAG

39 ysserAspLeuGluTyrLeuGluValGluIleThrAsp

[illegible][illegible]

For the purpose of the present study, the following hypotheses were formulated:

243 AAAGCTTGAAGCCCTGGGAGAGAGAAATGAAAT...GGCTT

72 r.....ArgLysProAsnTyrGluS

296 AAGCAGCTCGGCTTGTCTGGGAGTTGGAGGCATTCCGAC

81IleArg

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111 .....
383 SerAspGluHisGluLeuLeuThrHisGlnSerThrHisThrSerProse 399
1074 CTCAACCACTCGGCCCGCAGACAGCCGCGTGAGTACTCTGCTGCTCT 1123
399 rThrGluPheGlyValGlnThr..... 407
1124 CCAAGGCCAAGTGGTCCCTCGAGGCGGAGCGTCCCGGACAC... 1170
408 ..... 1170
1171 ..... 1170
418 HisThrGlyGluLysProPheSerCysSerGluCysGlyLysSerPhePh 434
1200 CAACAAGAGGAGCAGCGCGTCTTATCTACCTGACCAAC..... 1242
434 eTyrLysSerValLeuLysAspHisLeuValHisThrGlyGluLysP 451
1243 ..... 1242
451 rTyrHisCysIleGluCysGlyArgSerTyrThrHisGlnSerLeu 467
1276 AAGGAGGAGCAGCGCGTCTGCGCGCGCGCTCCGAGAACATC 1325
468 LysSerHisGlnArgThrHisThrGlyValLysAlaPheSerCysAsnLe 484
1326 GCAGGAGCGCTCGCGTGTGTCAGC..... 1350
484 uCysAspLysLeuSerIleLeuSerLysLeuArgLeuHisTyrArgValH 501
1351 ..... 1350
501 isSerGlyGluLysProTyrProCysThrGluCysAspLysThrPheThr 517
1354 AGCGGGGAGCAGATG..... 1373
518 LysLysGluGlnLeuGluSerHisTyrLysValHisThrGlyGluLysP 534
1374 GTCAAGTGGCAACACTGCGGGTGTCTTCCTGATCATCGTCAATGATCA 1423
534 oTyrProCysGlnGlnCysGlyLysSerPheSerHisLysSerValLeuL 551
1424 CCATCCACATGGGCTGCCAGCGGCTTCGTCATCTTTTGTAGTCCACATG 1473
551 ysLeuHisLeuArgThrHisThrGlyAspLysProPheSerCysThrGlu 567
1474 TGGCGGTACACACAGCAGGACCGGTACGAGTCTCTGTCGACACATACG 1521
568 CysGlyLysThrPheThrArgLysProAsnTyrGluSerHisLeuThr 583

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seq_name: p1r2:I48689

seq_documentation_block:

gene NK10 protein - mouse

C:Species: Mus musculus (house mouse)

C>Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 01-Dec-2000

C:Accession: I48689; S49078

R:Range, R.; Christoph, A.; Thiesen, H.J.; Vopper, G.; Johnson, K.R.; Lemaire, L.; Ploma

DNA Cell Biol. 14, 971-981, 1995

A>Title: Developmentally regulated mouse gene NK10 encodes a zInC Finger Repressor Prot

A:Reference number: I48689; NUID:96069544

A:Accession: I48689

A>Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-636 <RES>

A:Cross-references: EMBL:X79828; NID:q506501; PID:q506502

C:Superfamily: zinc finger protein ZFP-36; LIM metal-binding repeat homology

alignment_scores:

Quality: 311.00

Length: 550

Ratio: 1.192

Gaps: 22

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Percent Similarity: 47.455 Percent Identity: 23.636
alignment_block:
US-08-711-417c-165 x I48689 ..
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40 GGAAGGAAAGCCCGCTGTAAGCATATCTCCAGATGAGGCGGATGAGCC 89
158 GlyGluAspSerSerLeuSerThrAspLeuValProGlnLeuAspIleSe 174
90 CATGCCGATCCCGAGGACCTCTCCACCACCTCGGAGGACAGCAAGCT 139
174 rSerSerIleArgProSerAspCysLysThrPheGlyAsnAsnLeuGluH 191
140 CCAAGAGTGACAGAGTCGTGGCCAGTAATGTTAAAGTAGAGACTCAGAGT 189
191 isAsnSerGluLeuValThrGlnSerAsnIleLeuAlaLysLysPro 207
190 GATGAAGAATGGCGCTGCTGCAATGAATGGGGAAGATGTGCGGA 239
208 TyrLys.....Cys.....AspLysCysArgLy 215
240 CGATTTA.....CGAATGCTTGATCCCTCGGAGAGAAATG..... 276
215 sSerPheIleHisArgSerSerLeuAsnLysHisGluLysIleHisLysG 232
277 .....AATGGCTCCACAGGACCAAGCGAGCTCGGCTTTG 312
232 lysAspProTyrSerAsnGlyThr.....AspGlnGly.....AlaGln 244
313 TCGGAGTGGAGGCAATTCGACTTCTTAACGGAAACATAAGTGTGATAT 362
245 SerGly.....ArgLysHisHisGluCysAlaAs 254
363 CTGTGGGATCATTTGCATCGGGCCCAATGCTCATGTTTACAAAAGAA 412
254 pCysGlyLysThrPheLeuTrpArgThrGlnLeuThrGluHisGlnArgI 271
413 GCACACTGGAGACGGCCCTTCCAGTCCAATCAGTGGGGCCCTCATTC 462
271 leHisThrGlyGluLysProPheGluCysAsnValCysGlyLysAlaPhe 287
463 ACCAAGAGGCAACCTCTCGGCGACATCAAGTCGATTCGCGGGAGAA 512
288 ArgHisSerSerLeuGlyGlnHisGluAsnAlaHisThrGlyGluLy 304
513 GCCTTCAAATGCCACCTCTCAACTACGCTGCGCGGAGGAGGACGCC 562
304 sProTyrGlnCysSerLeuCysGlyLysAlaPheGlnArgSerSerSerL 321
563 TCACGTGGCCACCTGAGGACGCATCCGTTGGTAAACCTCACAATGTGGA 612
321 euValGlnHisGlnArgIleHisThrGlyGluLysProTyrArgCysAsn 337
613 TATTGTGGCCGAGTATAACAGCGAACCTCTTTAGAGGACATAAGA 662
338 LeuCysGlyArgSerPheArgHisSerThrSerLeuThrGlnHis..... 352
663 GCGCTGCCACAACACTACTTGGAAAGCATGGGCTTCGCGGCACACTGTACC 712
352 ..... 352
713 CAGTCATTAAAGAAGAACTAAGCACAGTGAATGGCAGAAAGACCTGTGC 762
353 .....GluValThrHisSerGlyGluLysProPheGlnCys 364
763 AGATAGATCAGACAGATCTCTCGTCTGCACAGACTAGCAAGTAATGT 812
365 Lys.....GluCysGlyLysAlaPheSerArgCysSerSerLeuVa 378
813 CGCCAAACGTAAAGAGCTCTATGCCTCAGAAATTTCTTGGGACAAG.... 858

```

378 lGlnHisGluArgThr.....HisThrGlyGluLysProp 390
 859GGCGTGTCCGACACGCCCTAC 879
 390 heGluCysSerIleCysGlyArgAlaPheGlyGlnSerProSerLeuTyr 406
 880 GACAGTGCACGCTACGAGAGGAGACGAATGATGAAGTCCACGCTGAT 929
 407 LysHisMetArgIleHisLysArgSerLysProTyrGlnSerAsn..... 421
 930 GGACCAAGCCATCAACAACGCCATCACTACCTGGGGCCGAGTCCCTGC 979
 422AsnPhe.....SerLeuA 426
 980 GCCCGTGTGCAGACGCC.....CGGGGGTTCGAGGTGTCTCCGGTC 1026
 426 laPheValProAsnThrProLeuProGlnGlyGluLeuThrGlu 442
 1027 ATCAGCCCGATG..... 1038
 443 ValLysSerTyrHisCysAsnAspCysGlyLysAspPheGlyHisIleTh 459
 1039TACCAGTGCACAGCGCTCGGAGGCCACCGCGCTCCACCACT 1084
 459 rAspPheSerGluHisGlnArgLeu.....HisA 469
 1085 CGGCCCGACAGCGCGGTGGAGTACCTGCTGCTCTCCAGGCCAAG 1134
 469 laGlyGlnAsnSerTyrGlySerGluGlnThrLeuGlyGlnGlnSer 485
 1135 TTGGTGCCTCGGAGCGCGAGCGTCCCGAGCAACACAGCTGC..... 1176
 486 LeuSerHisProArgGluLysProTyrGlnCysAsnValCysGlyLysAl 502
 1177CAAGACTCCAGCACCGCAGAGCAACACGAGGAGCGCAGCG 1222
 502 aPheLysArgSerPheIleGluHisArgIleHisThrGlyG 519
 1223 GTCTTATCTACCTGACCAACCATCGCCGCGAGCGCGCAACGCTGTGC 1272
 519 LuLysProTyrGluCysAsnGluCysGlyGluAlaPheSerArgLeuSer 535
 1273 CTCAGGAGGAGGCAC.....CGGCGCTAGACCT 1301
 536 SerLeuThrGlnHisGluArgThrHisThrGlyGluLysProTyrGluCy 552
 1302 GCTG.....CGGCGCGCTCCGAGAACTCGCAGGACGCGCTCCGG 1342
 552 sIleAspCysGlyLysAlaPheSerGlnSerSerSerLeuIleGlnHisG 569
 1343 TGCTACGACCAACCGGGGAGCAGATGAAGGTACAAAGTGCAGCACTGC 1392
 569 LuArgThrHisThrGlyGlu.....LysProTyrGluCysAsnGluCys 583
 1393 CGGGTCTCTTCGTGATCAGCTCATGTACACCATCCACATGGGTGCCA 1442
 584 GlyArgAlaPheArgLysLysThrAsnLeuHisAspHisGlnArgThrHi 600
 1443 CGGCTTCGGTGATCTTTGAGTGCAACATGTGCGGTACCCACGACGAG 1492
 600 sThrGlyGluLysProTyrAlaCysLysGluCysGlyArgAsn..... 614
 1493 ACCGGTACGAGTTCTCGTCGCATACATACCGGAGGAGCAGCGCTCCAC 1542
 615PheSerArgSerSerAlaLeuThrLys...HisHisArgValHis 628

seq_name: pir2.S10245

seq_documentation_block:

finger protein, testis - mouse

C:Species: Mus musculus (house mouse)

C:Date: 12-Feb-1993 #sequence_revision 12-Feb-1993 #text_change 01-Dec-2000

C:Accession: S10245

R.Nelki, D.; Dudley, K.; Cunningham, P.; Akhavan, M.
 Nucleic Acids Res. 18, 3655, 1990
 A:Title: Cloning and sequencing of a zinc finger cDNA expressed in mouse testis.
 A:Reference number: S10245; MUID:90301500
 A:Accession: S10245
 A:Molecule type: mRNA
 A:Residues: 1-411 <NDEL>
 A:Cross-references: EMBL:X52533; NID:g53456; PIDN:CAA36769.1; PID:g53457
 C:Superfamily: zinc finger protein ZFP-36; LIM metal-binding repeat homology
 C:Keywords: DNA binding; zinc finger

alignment_scores:

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| Quality: | 309.00 | Length: | 479 |
| Ratio: | 1.251 | Gaps: | 24 |
| Percent Similarity: | 51.566 | Percent Identity: | 24.843 |

alignment_block:

US-08-711-417C-165 x S10245 ..

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130 CAGCAAAAGCTCCAGAGGTGACAGAGTGGTCCGAGTAATGTTAAAGTAGA 179
 6 GluArgAsnAlaThrSerTyrProThrIleSerCysLeuIleLysValTh 22
 180 GACTCAGAGTGCATGACAGAGTAATGGCGTGCCTGTGAAATGAATGGGGAAG 229
 22 rLysThrLysProAlaLysAsnValArgLysTyrAlaArgHisSerAlas 39
 230 AATGTGGGAGGATTACGAATGCTTGCCTCGCGGAGAGAAAATGAAT 279
 39 erHisThrLysGluAspLysIle.....GlnThrGlyGluLysArgLys 53
 280 GGCTCCACAGGGACCAAGCGCTCGCTTGTGGGAGCTTGGAGGCAT 329
 54 ...SerHisCysArgThrProSerLysProGluLysAlaProGly..... 67
 330 TCGACTTCTTAACGAAAA...CTAAAGTGTGATATCTGTGGGATCATTT 376
 68SerGlyLysProTyrGluCysAsnHisCysGlyLysVal 81
 377 GCATCGGGCCCAATGCTCATGTTTCACAAAAGAACCCACACTGGAGAA 426
 81 euSerHisLysGlnGlyLeuLeuAspHisGlnArgThrHisThrGlyGlu 97
 427 CGGCGCTTCCAGTCAATCAGTGGCGGCTCATTTACCCAGAGAGGSCAA 476
 98 LysProTyrGluCysAsnGluCysGlyIleAlaPheSerGlnLysSerHi 114
 477 CCTGCTCCGCGCACATCAAGCTGCATTCGGGGAGAGCCCTTCAATGCC 526
 114 sLeuValLeuHisGlnArgThrHisThrGlyGluLysProTyrGluCysG 131
 527 ACCTCTGCAACTAGCCTGCGCGGAGGAGCGCCCTCACTGGCCACCTG 576
 131 LuGlnCysGlyLysAlaHisGlyHisLysHisAlaLeuThrAspHisLeu 147
 577 AGGACGCACTCCGTTGGTAAACCTCAAAAATGTGGATATTGTGGCCGAG 626
 148 ArgIleHisThrGlyGluLysProTyrLysCysAsnGluCysGlyLysTh 164
 627 CTATPAACAGCGAAGCTCTTTAGAGGAACATAAAGAGCGCTGCCACAAC 676
 164 rPheArgHisSerSerAsnLeuMetGlnHisLeu...ArgSerHis...Thr 179
 677 ACTTGGAAAGCATGGCGCTTCCGGGACACTGTACCAGTCATTAAAGAA 726
 180 GlyGluLysProTyrGluCysLys...GluCysGlyLysSerPheArgTy 195
 727 GAAACTAAGCAGCAGTGAATGGCAGAGAACCTGTGTCAAGTAGATC... 773
 195 rAsnSerSerLeuThrGluHisValArgThrHisThr.GlyGluIlePro 211

774 AGAGAGATCTCGTCTGCTGGACAGACTAGCAAGTAATGTGCGCAACGTA 823
||| : : : : : |||
212 TyrGluCysAsnGluCysGlyLysAlaPheLys..... 222
824 AGAGCTCTATGCTCAGAAATTTCTTGGGACAAAGGCGCTGTCGACACG 873
||| : : : : : |||
223TyrGlySerSerLeuThr..... 228
874 CCTACGACAGTGCACGCTACGAGAGGAGAGCAAGAAATGATGATGCCA 923
: : : : : ||| : : : : : |||
229LysHisMetArgIleHisThrGlyLysPheGluCysAsn 243
924 CGTGATGGAGCAAGC.....CATCAACA 946
: : : : : ||| : : : : : |||
244 GluCysGlyLysThrPheSerLysLysSerHisLeuValIleHisGlnAr 260
947 AGCCCATCAACTACCTGGGGGGCGAGTCCCTGCGCCGCTGTGTGACAGG 996
: : : : : ||| : : : : : |||
260 gThrHis.....ThrLysGluLysProTyrLysCysAspG 272
997 CCCCCGGGGTTCCGAGGTGTCGCGGTCATCAGCCGATGTACAGCT 1046
||| : : : : : ||| : : : : : |||
272 LucGlyLys.....AlaPheGlyHis.SerSerSerLeuThrTy 285
1047 GCACAGGCGCTCGAGGGACCCCGCGCTCCCAACCACTGGCCCCAGGACA 1096
||| : : : : : ||| : : : : : |||
285 rHisMetArgThr.....HisThrGlyAsp.... 293
1097 GCGCCGTGAGTACCTGCTGCTCTCCAAAGCCAAAGTTGTGTCCTCG 1146
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294CysProPhe 296
1147 GAGCGGAGGCGTCCCGAGCAACAGCTGCTCAAGACTCCACGACACCGA 1196
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297 Glu.....CysAsnGlnCysGlyLysAlaPhe..... 305
1197 GAGCAACAGAGGACGACGCGGTCTTATCTACCTGACCAACACCA 1246
: : : : : ||| : : : : : |||
306LysGlnIleGluGly.....LeuThrGlnHis. 314
1247 TCGCCCGAGCGGCGCAACCGGTCTCCCTCAAGGAGGAGGACCGCGCTAC 1296
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315GlnArgValHisThrGlyGlu.....LysProTyr 324
1297 GACTGCTGCGCGCCCTCCAGAACTCGCAGGAGCGCTCCGGTGTG 1346
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325 GluCysValGluCysGlyLysAlaPheSerGlnLysSerHisLeuIleVa 341
1347 C.....AGCACAGCGGGAGCAGATGAAGGTGACAGTGGGAAC 1387
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341 lHisGlnArgThrHisThrGlyGlu.....LysProPheGluCysTyrG 356
1388 ACTGCGGGGTCTCTCTGATCATGTCATGATACACCATCCACATGGGC 1437
: : : : : ||| : : : : : ||| : : : : : |||
356 lUcGlyLysAlaPheAsnAlaLysSerGlnLeuValIleHisGlnArg 372
1438 TGCACGGCTTCGCTGATCCTTTGAGTGCACATGTCGCGCTACACAG 1487
||| : : : : : ||| : : : : : |||
373 SerHisThrGlyLysProTyrGluCysIleGluCysGlyLysAlaVa 389
1488 CCAGGACCGGTACGAGTTCTGCTGCGACATA 1518
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389 lLysGlnAsnAlaSerLeuThrLysHisMet 399
seq_name: pir2:S26823

seq_documentation_block:
zinc finger protein ZNF43 - human
N:Alternate names: zinc finger protein kox27
C:Species: Homo sapiens (man)
C:Date: 13-Jan-1995 #sequence revision 13-Jan-1995 #text_change 01-Dec-2000
C:Accession: S26823; 137967; S10416

R;Lovering, R.; Trowsdale, J.
Nucleic Acids Res. 19, 2921-2928, 1991
A:Title: A gene encoding 22 highly related zinc fingers is expressed in lymphoid cell
A:Reference number: S26823; MUID:91279444
A:Accession: S26823
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-803 <LOV>
A:Cross-references: EMBL:X52444; NID:g38031; PIDN:CAA41932.1; PID:g38032
R;Thiesen, H.J.
New Biol. 2, 363-374, 1990
A:Title: Multiple genes encoding zinc finger domains are expressed in human T cells.
A:Reference number: I37949; MUID:91145339
A:Accession: I37967
A:Status: preliminary; translated from GB/EMBL/DBDJ
A:Molecule type: mRNA
A:Residues: 476-531 <THI>
A:Cross-references: EMBL:X52358; NID:g34160; PIDN:CAA36584.1; PID:g930090
C:Genetics:
A:Gene: GDB:ZNF43; HTF6
A:Cross-references: GDB:128653
A:Map position: 19p13.1-19p12
C:Superfamily: zinc finger protein ZFP-36; LIM metal-binding repeat homology
C:Keywords: DNA binding; zinc finger

alignment_scores:
Quality: 308.00 Length: 405
Ratio: 1.439 Gaps: 12
Percent Similarity: 52.840 Percent Identity: 23.704
alignment_block:
US-08-711-417C-165 x S26823 ..
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352 AAGTGTGATATCTTGGGATCATTTGTCATCGGGCCCAATGTGTCATGCT 401
||||| : : : : : ||| : : : : : |||
309 LysCysGluCysGlyLysAlaPheAsnTrpProSerThrLeuThrLys 325
402 TCACAAAGAAGCCACTGGAGAACGCGCTCCAGTGCATCAATCAGTGGC 451
||||| : : : : : ||| : : : : : |||
325 sHisLysArgIleHisThrGlyLysProTyrThrCysGluCysG 342
452 GGGCTCATTCACCCAGAGGCAACCTGCTCCGGCAGCATCAAGCTGAT 501
: : : : : ||| : : : : : ||| : : : : : |||
342 lLysAlaPheAsnGlnPheSerAsnLeuThrHisLysArgIleHis 358
502 TCCGGGAGAGCCCTTCAATGCCACTCTGCAACTAGCCTGCCGCGC 551
: : : : : ||| : : : : : ||| : : : : : |||
359 ThrAlaGluLysPheTyrLysCysThrGluCysGlyGluAlaPheSerAr 375
552 GAGGACGCCCTCACTGGCCACCTGAGCAGCAGCTCCGTTGGTAAACCTC 601
: : : : : ||| : : : : : ||| : : : : : |||
375 gSerSerAsnLeuThrLysHisLysIleHisThrGluLysLysProt 392
602 ACAATGTGATATGTGGCCGAGCTATAACACGACGACGCTCTTAGAG' 651
: : : : : ||| : : : : : ||| : : : : : |||
392 yrLysCysGluCysGlyLysAlaPheLysTrpSerSerLysLeuThr 408
652 GAACATAAA.....GAGCGCTGCCCAACTA 677
||||| : : : : : ||| : : : : : ||| : : : : : |||
409 GluHisLysLeuThrHisThrGlyLysProTyrLysCysGluGluC 425
678 CTGGAAAGCATGGGCTTCGGGACACACTGACCCAGTCAATTAAGAAG 727
: : : : : ||| : : : : : ||| : : : : : |||
425 sGlyLysAlaPheAsnTrpProSerThrLeu..... 435
728 AAATAAGCACAGTGAATGGCAGAGAC.....CTGTGCAAG 765
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436 ..ThrLysHisAsnArgIleHisThrGlyLysProTyrLysCysGlu 451
766 ATAGGATCAGAGATCTCTCGTGTGGACAGACTAGCAAGTAATGTGCGC 815

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452 ValCysGlyLysAlaPheAsnGlnPheSerAsnLeuThrThrHisLysAr 468
816 CAAACGTAAGAGCTCTATGCTCAGAAATTTCTGGGCAAGGGCGCTGT 865
468 gIleHisThrAlaGluLysProTyrLys...CysGluGluCysGlyLysA 484
866 CCGACACGCCCTACGACAGTGCACAGTCCAGAGAGGAGACGAAATGATG 915
484 lApheSerArgSerSerAsnLeuThrLysHisLysLysLysIleGlu 500
916 AAGTCCACGCTGATGGACCAAGCCATCAACAAGCCATCACTACCTGGG 965
501 LysLysProTyrLysCysGluGluCysGlyLysAlaPheLysTrpSerSe 517
966 GGCGAGCTCCCTGCGCGCTGTGTGAGAGCCCGCGCGGTCCGAGG 1015
517 rLysLeuThrGluHisLysIleThrHisThr..... 527
1016 TGGTCCGGTCTATAGCCCGATACCAAGTGCACAGGCGCTCGGAGGC 1065
528 .....Gly 528
1066 ACCCGCGCTCCAAACCACTCGGCCAGGACAGCGCGCTGAGTACTGCT 1115
529 GluLysProTyrLysCysGluGluCysGlyLysAlaPheAsnHisPheSe 545
1116 GCTGCTCTCAAGCCCAAGTTGCTGCCCTCGGAGCGCGGCTCCCGA 1165
545 rIleLeuThrLysHisLysArgIleHisThrGlyGluLysProTyrLysC 562
1166 GCACAGCTCCCAAGTCTCCAGGACCGGACGAGCAACAACGAGGAGCAG 1215
562 ysGluGluCys...GlyLysAlaPheThrGlnSerSerAsn..... 574
1216 CGCAGCGGTCTTATCTACCTGACCAACCACTCGCCGCGCGCGCAAGC 1265
575 .....LysLy 580
1266 CGTGTGCTCAAGGAGGAG...CACGCGCGCTACGACCTGCTCGCGCGC 1312
580 sIleHisThrGlyLysPheTyrLysCysGluGluCysGlyLysAlaP 597
1313 CTCCCGAAGACTCGAG...GAGCGCGCTCGGCTGTCTACGACGAGCGGG 1359
597 heThrGlnSerSerAsnLeuThrHisLysLysIleHisThrGlyGly 613
1360 GACGAGATGAAGTGTACAGTCCGAACACTGCGGGTCTCTCTCGGA 1409
614 .....LysProTyrLysCysGluGluCysGlyLysAlaPheAsnGl 627
1410 TCAGTCTATGATACACCATCCATGCGCTGCCACGCTTTCGCTGATCTT 1459
627 nPheSerThrLeuThrLysHisLysIleIleHisThrGluGluLysProT 644
1460 TTGAGTGCACATGTCGCGCTACCAAGCCAGCGCGGTACGAGTTCG 1509
644 yrLysCysGluGluCysGly.....LysAlaPheLysTrpSer 656
1510 TCGCACATAACGGGA 1524
657 SerThrLeuThrLys 661

```

seq_name: p1r2:G02075

seq_documentation_block:

transcription repressor zinc finger protein 85 - human

C.Species: Homo sapiens (man)

C.Date: 21-Dec-1996 #sequence_revision 06-Jun-1997 #text_change 01-Dec-2000

C.Accession: G02075

R.Poncellet, D.A.

submitted to the EMBL Data Library, September 1995

A.Reference number: G09169

A:Accession: G02075
 A:Status: preliminary; translated from GB/EMBL/DDBJ
 A:Molecule type: mRNA
 A:Residues: 1-595 <PON>
 A:Cross-references: EMBL:U35376; NID:g1017721; PIDN:AAA79179.1; PID:g1017722
 C:Genetics:
 A:Gene: GDB:ZNF85
 A:Cross-references: GDB:I32279
 A:Map position: 19p12-19p12
 C:Superfamily: zinc finger protein ZFP-36; LIM metal-binding repeat homology

alignment_scores:

Quality: 307.00 Length: 403
 Ratio: 1.558 Gaps: 13
 Percent Similarity: 48.883 Percent Identity: 24.069

alignment_block:

US-08-711-417C-165 x G02075 ..

Align seg 1/1 to: G02075 from: 1 to: 595

```

352 AAGTGTGATATCTGTGGGATCATTTGTCATCGGGCCCAATGTGCTCATGGT 401
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
203 LysCysGluGluCysGlyLysAlaPheAsnTrpSerSerThrLeuThrLy 219
402 TCACAAAAGAACCCACACTGGAGAACCGCCCTCCAGTGCAATCAGTCGC 451
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
219 sHisLysArgIleHisThrGlyGluLysProTyrLysCysGluGluCysG 236
452 GGGCTCATTCACCCAGAGGGCAACCTGCTCCGGCACATCAAGCTGCAT 501
||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
236 lLysAlaPheAsnGlnSerSerAsnLeuIleLysHisLysLysIleHis 252
502 TCCGGGAGAGCCCTCAAAATGCCACTCTGCAACTACGCGCTCCCGCGC 551
||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
253 ThrGlyGluLysProTyrLysCysGluGluCysGlyLysAlaPheAsnAr 269
552 GAGGAGACGCCCTCACTGCGCCACCTGAGGAGCAGCTCCGCTTGGTAAACCTC 601
||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
269 gPheSerThrLeuThrHisLysIleIleHisThrGlyGluLysProt 286
602 ACAATATGGATATTGGCGGAAGCTATAAACAGCAACGCTCTTTAGAG 651
||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
286 yrLysCysLysGluCysGlyLysAlaPheAsnArgSerSerThrLeuThr 302
652 GAACATAAA.....GAGCGCTG 668
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
303 ThrHisArgLysIleHisThrGlyGluLysProTyrLysCysGluGluCy 319
669 CCACAAC...TACTTGGAAAGAGCTGCGCTTCCGGGCACACTGTACCCAG 715
||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
319 sGlyLysAlaPheLysGlnSerSerAsnLeu.....ThrThrHisLysI 334
716 TCATTAAGAAGAACTAAGCACAGTGAATGGCAGAGACCTGTGCAAG 765
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
334 leIle.....HisThrGlyGluLysProTyrLysCysLys 345
766 ATAGGATCAGAGAGATCTCTCGTCTGGACAGACTACGAAGTAAATGTGCG 815
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
346 LysCysGlyLys.....AlaPheAsnGlnSe 354
816 CAAACGTGAAGAGCTCTATGCTCAGAAATTTCTGGGCAAGGGCGCTGT 865
||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
354 rAlaHisLeuThrHisGluValIleHisThrGlyGluLys..... 368
866 CCGACAGCGCTCAGCAGTGCACGCTACGAGAGGAGAGCAAGAAATGATG 915
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
369 .....ProTyrLysCys..... 372
916 AAGTCCCGCTGATGGACCAAGCCATCAACAACGCCCATCACTACCTGGG 965
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
373 .....GluLysCysGlyLysAlaPheAsnHisPheSe 383

```



```
927 GATGACCAAGCCATCAACACGACATCACTACCTGCGGCGAGTCCC 976
    : : : : : : : : : : : : : : : : : : : : : : : :
826 rLysCysGluCysGlyLysAlaPheLysHisSerSerAlaLeuAlaL 843
    : : : : : : : : : : : : : : : : : : : : : : : :
977 TGCCCGCGTGTGTCACAGCGCCCCCGGGCGGTTCAGAGTGTGCCGCTC 1026
    : : : : : : : : : : : : : : : : : : : : : : : :
843 ySHisLysIleIleHisAlaGlyGlu..... 851
    : : : : : : : : : : : : : : : : : : : : : : : :
1027 ATCAGCCCGATGATACAGCTGCACAGCGGTTCGAGGCGCACCGCGCTC 1076
    : : : : : : : : : : : : : : : : : : : : : : : :
852 .....LysLeuTyrLysCysGluGluCysGlyLysAlaPhe 863
    : : : : : : : : : : : : : : : : : : : : : : : :
1077 CAACACTCGCCCGCAGACAGCGCGGTGGAGTACCTGCTGCTCTCCCA 1126
    : : : : : : : : : : : : : : : : : : : : : : : :
863 eAsnGlnSerSerAsn.....LeuThrT 871
    : : : : : : : : : : : : : : : : : : : : : : : :
1127 AGGCCAAGTGTGTCCTCGAGCGCGAGCGTCCCGGACACAGCTGC 1176
    : : : : : : : : : : : : : : : : : : : : : : : :
871 hrHisLysIleIleHisThrLysGluLysProSerLysSerGluGluCys 887
    : : : : : : : : : : : : : : : : : : : : : : : :
1177 CAA.....GACTCCACGACGACGAGACGACACAGGAGA 1211
    : : : : : : : : : : : : : : : : : : : : : : : :
888 AspLysAlaPheIleTrpSerSerThrLeuThrGluHisLysArgIleH 904
    : : : : : : : : : : : : : : : : : : : : : : : :
1212 CGAGCGC.....AGCG 1222
    : : : : : : : : : : : : : : : : : : : : : : : :
904 sThrArgGluLysProTyrLysCysGluGluCysGlyLysAlaPheSerG 921
    : : : : : : : : : : : : : : : : : : : : : : : :
1223 GTCTATCTACCTGACCAACACACATCCCGCAGCGCGCGAGCGGTGTCG 1272
    : : : : : : : : : : : : : : : : : : : : : : : :
921 lnProSerHisLeuThrThrHis.....LysArgMetHis 932
    : : : : : : : : : : : : : : : : : : : : : : : :
1273 CTCAAGGAGGAG...CACCGCGCTACGACGTGTCGCGCGCGCTCCGA 1319
    : : : : : : : : : : : : : : : : : : : : : : : :
933 ThrGlyGluLysProTyrLysCysGluGluCysGlyLysAlaPheSerG 949
    : : : : : : : : : : : : : : : : : : : : : : : :
1320 GAACCTCGAGGAGCGCTCGCGGTGTCACGACGCGGCGGAGCAGATGA 1369
    : : : : : : : : : : : : : : : : : : : : : : : :
949 nSerSerThrLeuThrThrHisLysIleIleHisThrGlyGlu.....L 964
    : : : : : : : : : : : : : : : : : : : : : : : :
1370 AGGTGTACAGTGGACACTGCGGCGTCTCTCTCGATCAGTCATG 1419
    : : : : : : : : : : : : : : : : : : : : : : : :
964 ysProTyrLysCysGluGluCysGlyLysAlaPheArgLysSerSerThr 980
    : : : : : : : : : : : : : : : : : : : : : : : :
1420 TACACATTCACATGCGCTCCCGCGGTCTCCGTCATCTTTTGGATGCAA 1469
    : : : : : : : : : : : : : : : : : : : : : : : :
981 LeuThrGluHisLysIleIleHisThrGlyGluLysProTyrLysCysG 997
    : : : : : : : : : : : : : : : : : : : : : : : :
1470 CATGTGCGGTACACAGCCAGGACCGGTACGAGTTCCTGTCGCACATAA 1519
    : : : : : : : : : : : : : : : : : : : : : : : :
997 uGluCysGly.....LysAlaPheSerGlnSerSerThrLeuT 1010
    : : : : : : : : : : : : : : : : : : : : : : : :
1520 CGCAGGGGAGACCGCTTCCAC 1542
    : : : : : : : : : : : : : : : : : : : : : : : :
1010 hrArg....HisThrArgMetHis 1016
    : : : : : : : : : : : : : : : : : : : : : : : :
seq_name: pir2:JH0500
```

```
seq documentation block:
zinc finger protein 29 - mouse
C:Species: Mus musculus (house mouse)
C:Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 08-Dec-2000
C:Accession: JH0500
R:Denny, P.; Ashworth, A.
Gene 106, 221-227, 1991
A:Title: A zinc finger protein-encoding gene expressed in the post-meiotic phase of sper
A:Reference number: JH0500; MUID:92039080
A:Accession: JH0500
A:Molecule type: mRNA
A:Residues: 1-614 <DEN>
A:Cross-references: GB:X55126; NID:955470; PIDN:CAA38920.1; PID:g55471
A:Experimental source: testis
C:Keywords: DNA binding; zinc finger
```

```
F:217-244/Region: zinc finger
F:245-272/Region: zinc finger
F:273-300/Region: zinc finger
F:301-328/Region: zinc finger
F:329-356/Region: zinc finger
F:357-384/Region: zinc finger
F:385-412/Region: zinc finger
F:413-440/Region: zinc finger
F:441-468/Region: zinc finger
F:469-496/Region: zinc finger
F:497-524/Region: zinc finger
F:525-552/Region: zinc finger
F:553-580/Region: zinc finger
F:581-608/Region: zinc finger

alignment_scores:
  Quality: 305.00      Length: 649
  Ratio: 1.105        Gaps: 26
  Percent Similarity: 42.527  Percent Identity: 21.263
```

alignment_block:

US-08-711-417C-165 x JH0500 ..

Align seg 1/1 to: JH0500 from: 1 to: 614

```
4 GATGCTCAGCAGGGTCAAGACATGCTCTTCTCATCAGGAGGAAAGCCC 53
    : : : : : : : : : : : : : : : : : : : : : : : :
47 AspGlyProGluSerGluProPheProGlnSerAlaGlyLysGlySerPr 63
    : : : : : : : : : : : : : : : : : : : : : : : :
54 CCCTGTGAAGCGATACT..... 69
    : : : : : : : : : : : : : : : : : : : : : : : :
63 oGlnGluGluAspAlaAlaGluGlyProGlnGlyAlaLeuValArgPheA 80
    : : : : : : : : : : : : : : : : : : : : : : : :
69 ..... 69
80 rgGluLeuCysArgArgTrpLeuArgProGluValHisThrLysGluGln 96
    : : : : : : : : : : : : : : : : : : : : : : : :
69 ..... 69
97 MetLeuThrValLeuProArgGluIleGlnAlaTrpLeuGlnGluHisAr 113
    : : : : : : : : : : : : : : : : : : : : : : : :
70 .CAAGATGAGGGGATGAGCCCATGCGCATGCCGAGGACCTCTCCACCA 118
    : : : : : : : : : : : : : : : : : : : : : : : :
113 gProGluSerSerGluGluAlaValAlaLeuValGluAspLeuThrGlnT 130
    : : : : : : : : : : : : : : : : : : : : : : : :
119 CC..... 120
    : : : : : : : : : : : : : : : : : : : : : : : :
130 hrPheArgHisSerAspPheGluIleGlnSerGluAsnGlyGluAsnSer 146
    : : : : : : : : : : : : : : : : : : : : : : : :
120 ..... 120
147 AsnGluAspMetPheGluGlyValGluSerHisGlyMetPheLeuAsnIl 163
    : : : : : : : : : : : : : : : : : : : : : : : :
121 .TCGGGAGGACAGCAAGCTCCAAAGTAGTACAGAGTGTGCGCCAGTAATG 169
    : : : : : : : : : : : : : : : : : : : : : : : :
163 eSerGlyGlyGluGlyGlnGlnSerAsp..... 173
    : : : : : : : : : : : : : : : : : : : : : : : :
170 TTAAGTAGAGACTCAGAGTATGAAGAGAATGGCGTGTGCTGTGAATG 219
    : : : : : : : : : : : : : : : : : : : : : : : :
174 .....GlyAspSerAspPheGluArgAspCysGlySer 184
    : : : : : : : : : : : : : : : : : : : : : : : :
220 AATGGGAAGAA.....TGTGGGAGGATTTACGAATGCTGTATGC 260
    : : : : : : : : : : : : : : : : : : : : : : : :
185 GlyGlyAlaGlnGlyHisAlaProGlyGluAspProArgValValProSe 201
    : : : : : : : : : : : : : : : : : : : : : : : :
261 CTGGGAGAGAAATGAATGGCTCCACAGGACCAAGGCGCTCGGCTT 310
    : : : : : : : : : : : : : : : : : : : : : : : :
201 rGluGlyArgGluVal.....GlyGlnL 209
    : : : : : : : : : : : : : : : : : : : : : : : :
311 TGTGGGAGTGTGGAGCTTCGACTTCCTTAACGGAAACCTAAAGTGTGAT 360
    : : : : : : : : : : : : : : : : : : : : : : : :
209 eulGlyLeuGlnGlyThrTyrLeuGlyGluLysProTyrGluCysPro 225
```

```

361 ATCTGTGGATCATTTGCATCGCGGCCCAATGTCCTCATGCTTCAACAAAG 410
|||||
226 GlnCysGlyLysThrPheSerArgLysSerHisLeuIleThrHisGluAr 242
|||||
411 A..... 411
242 gThrHisThrGlyGluLysTyrTyrLysCysAspGluCysGlyLysSerP 259
412 .....AGCCACACTGGAGAA 426
259 heSerAspGlySerAsnPheSerArgHisGlnThrHisThrGlyGlu 275
427 CGGCCCTTCCAGTCATCATGTCGGGGCCCTCATTCACCCAGAGGGCAA 476
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
276 LysProTyrLysCysArgSpCysGlyLysSerPheSerArgSerAlaAs 292
477 CTTGTCCGGCAGCATCAAGTCTCCGGGAGAGCCCTTCAAAATGCC 526
|||||: ||| :|||||:|||||:|||||:|||||:|||||:|||||
292 nLeuIleThrHisGlnArgIleHisThrGlyGluLysProPheGlnCysA 309
527 ACCTGTCAACTACGCTGCGCGCGAGGAGCCCTCACTGCCACCTG 576
|||||: ||| :||| ||| :|||||
309 laGluCysGlyLysSerPheSerArgSerProAsnLeuIleAlaHisGln 325
577 AGGACGCACTCCGTTGGTAAACCTCAAAATGGATATGTGGCCGAAG 626
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
326 ArgThrHisThrGlyGluLysProTyrSerCysProGluCysGlyLysSe 342
627 CTATAAACAGCAAGCTCTTACAGAAACATAAAGAGCGCTGCCAACA 676
|||||: ||| :|||||:|||||: ||| :|||||
342 rPheGlyAsnArgSerSerLeuAsnThrHis...GlnGlyIleHis.Th 357
677 ACTTGAAACATGGGCTTCCGGGCACACTGTACCCAGTCAATTAAGAA 726
||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
358 GlyGluLysProTyrAlaCysLys...GluCysGlyLysSerPheSer 373
727 GAACTAAGCAGACATGAATGGCAGAACCTGTGCAAGATAGGATCAGA 776
||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
373 rAsnSerAsnLeuIleArgHisGlnArgIleHisThr.....GlyGlu 388
777 GAGATCTCTGCTGTCGACAGACTAGCAAGTAATGTCGCAACGTAAGA 826
||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
388 ysProTyrLysCys..... 392
827 GCTCTATGCTCAGAAATTTCTTGGGACAGAGGCGCTGTCGACAGCC 876
||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
393 ThrGluCysGlyGlnLysPheSerGlnSerSerAlaLeu..... 405
877 TAGCAGAGTCCACGTACGAGAGGAGAGCAAAATGATGAATCCACGT 926
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
406 .....IleThrHisArgThr..... 411
927 GATGGACCAAGCCATCAACAGCCATCACTACCTGGGGCGGAGTCC 976
412 .....HisThrGlyGluLysProTyrGln 419
977 TGGCGCGCTGTGGACAGCCCGCGGGGCTTCGAGGTGTCCGGTCC 1026
|||||: ||| :||| :||| :||| :||| :||| :||| :||| :|||
420 CysGlyGlu...CysGlyLys.....AsnPheSerArgSe 430
1027 ATCA.....GCC 1034
430 rSerAsnLeuAlaThrHisArgThrHisLeuValGluLysProTyrL 447
1035 GATGTACCAAGTGC.....ACAGCGCTCGGAGGCA 1066
:|||||: ||| :|||||: ||| :|||||: ||| :|||||: |||
447 yscysGlyLeuCysGlyLysSerPheSerGlnSerSerLeuIleAla 463
1067 CCGCGCGCTCCAAACCACTCGGCCAGACAGCGCGGTGAGTACCTGCTG 1116
:|||||: ||| :||| :||| :||| :||| :||| :||| :||| :|||
464 HisGlnGlyThrHisThrGlyGluLys.....ProTyrGluCysLeuTh 478

```

```

1117 CTGCTCTCAAGGCCAAGTTGGTGCCTCGAGCGCGAGCGTCCCGAG 1166
|||||: ||||| :||| :||| :||| :||| :||| :||| :|||
478 tCysGlyGluSerPheSerSerAsnLeuIleLysHisGlnArgT 495
1167 CA...ACAGCTCCCAAGACTCCACGGACACAGAGCAACACGAGGAGC 1213
:|||||: ||| :||| :||| :||| :||| :||| :||| :|||
495 hrHisThrGlyGluLysProTyrArgCys.GlyAspCysGlyLysGlyPh 511
1214 AGCGAGCGGTCTTATCTACCTACCAACACACATCGCCCGCGCGCAA 1263
:|||||: ||| :||| :||| :||| :||| :||| :||| :|||
511 eSerGlnArgSerGlnLeu.....ValValHisGlnArgThrHisThr. 525
1264 CGCTGTCTCAAGGAGGACACCGCCCTACGACCTGCTGCGCGCGCG 1313
||| :|||||: ||| :||| :||| :||| :||| :||| :|||
526 .....Gly.GluLysProTyrLysCysLeuMetCysG 536
1314 CTCGAGAACTCGCAGGACGCGCTCCGCGTGGTC.....AGCACCA 1354
:|||||: ||||| :|||||: ||||| :|||||: ||||| :|||||: |||||
536 yLysSerPheSerArgGlySerIleLeuValMetHisGlnArgAlaHisL 553
1355 CGCGGAGCAGATGAAGTGTACAGTGCAGAACACTGCCGGGTGCTCTTC 1404
|||||: ||| :||| :||| :||| :||| :||| :||| :|||
553 euGlyasp.....LysProTyrArgCysProGluCysGlyLysGlyPhe 567
1405 CTGGATCAGTCATGTACACCATCCATGGCTGCCACGCTTCCGCTGA 1454
:|||||: ||| :||| :||| :||| :||| :||| :||| :|||
568 SerTrpAsnSerValLeuIleIleHisGlnArgIleHisThrGlyGly 584
1455 TCCTTTTGAGTCAACATGTGCGGTACACAGCAGCAGGACCGGTACGAGT 1504
||| :|||||: ||||| :|||||: ||||| :|||||: ||||| :|||||
584 sProTyrArgCysProGluCysGlyLysGlyPheSerAsnSerSerAsn 601
1505 TCTCTGCGCATACGCGGAGGAGCACCCTTCCACATG 1545
|| :||| :||| :||| :||| :||| :||| :||| :|||
601 heIleThrHis.....GlnArgThrHisLeu 609

```

seq_name: pir2:A38073

seq_documentation_block:

transcription activator ZNF35 - human

N;Alternate names: finger protein HF.10; zinc finger protein 35

A;Species: Homo sapiens (man)

C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 01-Dec-2000

C;Accession: A38073; S00753

R;Lanfranccone, L.; Pengue, G.; Pandolfi, P.P.; Salcini, A.E.; Giacomucci, A.; Longo,

A;Title: Structural and functional organization of the HF.10 human zinc finger gene (

A;Reference number: A38073; MUID:92241871

A;Accession: A38073

A;Molecule type: DNA

A;Residues: 1-519 <LAN>

A;Cross-references: GB:I35269; NID:g1162931; PIDN:AAA85451.1; PID:g1162933

A;Note: sequence extracted from NCBI backbone (NCBIN:98395, NCBIN:98399, NCBIN:98401,

R;Pannuti, A.; Lanfranccone, L.; Pascucci, A.; Pellicci, P.G.; La Mantia, G.; Lania, L.

Nucleic Acids Res. 16, 4227-4237, 1988

A;Title: Isolation of cDNAs encoding finger proteins and measurement of the correspon

A;Reference number: S00753; MUID:88247738

A;Accession: S00753

A;Molecule type: mRNA

A;Residues: 1-404,433-519 <PAN>

A;Cross-references: EMBL:X07289; NID:g32070; PIDN:CAA30268.1; PID:g32071

C;Genetics:

A;Gene: GDB:ZNF35

A;Cross-references: GDB:120507; OMIM:194533

A;Map position: 3p21-3p21

A;Introns: 56/3; 105/1

C;Superfamily: zinc finger protein ZFP-36; LIM metal-binding repeat homology

C;Keywords: DNA binding; transcription regulation; zinc finger

alignment_scores:

Quality: 304.50

Ratio: 1.296

Length: 528

Gaps: 20

Percent Similarity: 44.508 Percent Identity: 21.402

alignment_block:

US-08-711-417c-165 x A38073

Align seg 1/1 to: A38073 from: 1 to: 519

```
55  CTGTGAAGCATCTCCAGATGAGGGCGATGAGCCATCCGATCCCGA 104
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
116  ProLysThrGluLeuCysGluGluAlaGluLysProLeuIleSerGI 132
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
105  GGACCTCTCCACACCTCGGAGGAGACAAAGCTCCAAAGAGTGACAG 154
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
132  uArgIleGln..... 135
155  TCGTGCCAGTAATGTAAAGTAGACATCAGATGATGAGAGAAATGG 204
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
136  .....LysAlaAspProGlnGly...ProGluLeuGly 145
205  CGTGCCCTGTGAATGAATGGG..... 225
146  GluAlaCysGluLysGlyAsnMetLeuLysArgGlnArgIleLysArg 162
226  .....GAAGAATGTGCGGAGGATTACGAATGCTTGATG 259
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
162  uLysLysAspPheArgGlnValIleValAsnAspCysHisLeuProG 179
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
260  CCTCGGAGAGAAATGAATGCTCCACAGAGGACCAAGGACGCTCGGT 309
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
179  erPheLysGluGluGlnAsnGlnLysCysLysLysSerGlyGlyLys 195
310  TTGTCGGGAGTTGGAGGATTCGACTTCCTAAACGGGAAACTA..... 351
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
196  SerLeuAsnSerGlyAlaValLysAsnProLysThrGlnLeuGlyGln 212
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352  .....AAGTGATATCTGTGGGATCATTTGCAATCGGGGCCAATGTC 394
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212  sProPheThrCysSerValCysGlyLysPheSerGlnSerAlaAsnL 229
395  TCATGCTTCACAAAGAACGACACTGGAGAACGCGCTTCACAGTCAAT 444
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
229  euValHisGlnArgIleHisThrGlyGluLysProPheGlyCysHis 245
445  CAGTGGGGGCGCTCATTCACCCAGAGGCAACCTGCTCCGCGACATCAA 494
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
246  GluCysLysAlaPheIleGlnSerAlaAsnLeuValValHisGlnAr 262
495  GCTGATTCGGGAGAACGCTTCAATGCCACCTCTGCACTAGCGCT 544
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
262  gIleHisThrGlyGlnLysProTyrValCysSerLysCysGlyLysAl 279
545  GCCGCGGAGGAGCGCTCACTGGCCACTGAGGACGACCTCGGTGCT 594
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
279  heThrGlnSerSerAsnLeuThrValHisGlnLysIleHisSerLeu 295
595  AAACCTCACAAATGTGGATTTGTGCCGAAGCTATAAAGACGACGTC 644
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
296  LysThrPheLysCysAsnGluCysGluLysAlaPheSerTyrSerSer 312
645  TTAGAGGAACATAA.....GAGCGCTGCCCACTACT 679
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
312  nLeuAlaArgHisGlnLysValHisIleThrGluLysCysTyrGluCys 329
680  TGGAAACGATCGGCTTCGGGCGACACTGACCA.....GTC 717
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329  snGluCys.....GlyLysThrPheThrArgSerSerAsnLeu 341
718  ATTAAGAAGAAACTAAGCACAGTGAATGGCAGAACCTGTGCAAGAT 767
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342  IleValHisGlnArgIleHisThrGlyGluLysProPheAlaCys..... 356
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818  AACGTAAAGACTCTATGCCCTCAGAAATTTCTTGGGACAGGCGCTGTCC 867
372  isGlnArgSerHisThrGlyGluLys..... 380
868  GACACGCGCTACGACAGTGCACGTAGCAGAGGAGAGAACGAAATGATGA 917
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381  .....ProTyrGluCysLysGluCysGlyLysAlaPheSerCysPhe 395
918  GTCCACGCTGATGACCAACCAACCAACCAACCAACCAACCAACCAACCA 967
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395  rHisLeuIleValHisGlnArgIleHisThrAla..... 406
968  CCGAGTCCCTGCGCGCTGTCGACAGCGCCCGGGCGGTTCGAGGTG 1017
407  .....GluLysProTyrAspCysSerGluCys 415
1018  GTCCGCGTATCAGCCGCGATGTACCACTG.....CACAGCGCTCGGA 1061
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416  GlyLysAlaPheSerGlnSerLeuIleValHisGlnArgIle.. 431
1062  GGGACCGCGCGCTTCAACCACTGCGCCCGGAGGACGCGCGTGGAGTACC 1111
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
432  .....HisSerGlyAsp.....LeuProTyrV 439
1112  TGCTGTCTCTTCCAAAGCCCAAGTTGTCCTCGGAGCGGAGGCGTCC 1161
439  ai..... 439
1162  CCGAGCAACAGCTGCCAAGACTCCACGACACCGAGAGACAAACAGGA 1211
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440  ...CysAsnGluCysGlyLysAlaPheThrCysSerSer..... 451
1212  GCACCGCAGCGCTTATCTACCTGACCAACCAACCAACCAACCAACCA 1261
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452  .....TyrLeuLeuIleHis.....G 457
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457  lnArgIleHis..... 460
1312  GCCTCCGAGAACTCCGAGGAGCGCTCCGCGTGGTCAGCACACCGGGA 1361
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461  .....AsnGlyG 463
1362  GCAGATGAAGGTGTACAAGTGCGAACACTGCGGGGTCTCTCTGTCGATC 1411
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463  u.....LysProTyrThrCysAsnGluCysGlyLysAlaPheArgGlnA 478
1412  ACGTATGTACACCATCCACATGGGTGCCACGCGTTCCTGATCCTTTT 1461
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478  rgSerSerLeuThrValHisGlnArgThrHisThrGlyGluLysProTyr 494
1462  GAGTGCACATGTCGGCTACCAACGACCGGACCGGTACGAGTCTCGTC 1511
|||  :::::  :::::  :::::  :::::  :::::  :::::  |||  ||
495  GluCysGluLysCysGly.....AlaAlaPheIleSerAsnSe 507
1512  GCACATAACGGGAGGAGCAGCAGCTTCCACATG 1545
507  rHisLeuMetArg...HisHisArgThrHisLeu 517
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seq_name: pir2:A40751

seq_documentation_block:

finger protein MZF1 - human

C;Species: Homo sapiens (man)

C;Date: 21-Apr-1992 #sequence_revision 21-Apr-1992 #text_change 01-Dec-2000

C;Accession: A40751

R;Hromas, R.; Collins, S.J.; Hickstein, D.; Raskind, W.; Deaven, L.L.; O'Hara, P.; Ha

J. Biol. Chem. 266, 14183-14187, 1991

A;Title: A retinoic acid-responsive human zinc finger gene, MZF-1, preferentially exp

A;Reference number: A40751; MUID:91317761

A;Accession: A40751
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-485 <HRO>
A;Cross-references: GB:M58297; NID:g189043; PID:g189044
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A;Gene: GDB:ZNF42; WZF-1
A;Cross-references: GDB:125898; OMIM:194550
A;Map position: 19q13.2-19q13.4
C;Superfamily: zinc finger protein ZFP-36; LIM metal-binding rep
C;Keywords: DNA binding; transcription regulation; zinc finger

| | | |
|---------------------|--------|--------------------------|
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| Quality: | 304.00 | Length: 527 |
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US-08-711-417C-165 x A40751 ..

Align seq 1/1 to: A40751 from: 1 to: 485

[illegible][illegible]

1526 GGGAGCACCGCTCCACATGAGC 1548
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467ArgArgPheHisGlnSer 472